INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/050196

PPC7: D21C 1/06, D21C 3/02, D21C 3/22 According to international Pattent Chaptification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (datafrication system followed by classification symbols) IPC7: D21C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE, DK, FI, NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, MPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Catagory* C	A. CLASSIFICATION OF SUBJECT MATTER				
Pittles SEARCHED Minimum documentation searched (classification system followed by classification symbols)					
Minimum documentation searched (clashification system followed by classification symbols) IPC7: D21C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE, DK, FI, NO classes as above Electronic data bare consulted during the international search (name of data bare and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y EP 0810321 A1 (SUNDS DEFIBRATOR PORI OY), 3 December 1997 (03.12.1997), figure 1, claim 1 Y W0 9914423 A1 (KVAERNER PULPING AB), 25 March 1999 (25.03.1999), page 2, 1ine 3 - line 27; page 6 - page 7; page 11, line 34 - page 12, line 2 A US 6350348 B1 (KAJ HENRICSON ET AL), 26 February 2002 (26.02.2002), column 2, line 29 - line 37; column 7, line 3 - line 9 X Secial categories of sted documents **A* document defining the general state of the et which is not considered to be of principal relevance to the objective relevance of the content of the objective relevance of the content of particular relevance the claimed investion cannot be reported reach on the international filing date but later than the principle date of the international sting date of the content of particular relevance the claimed investion cannot be reported reach of particular relevance the claimed investion cannot be reported reach of particular relevance the claimed investion cannot be reported reach of particular relevance the claimed investion cannot be reported reached on the principal date of an oral dictioner, use, exhibition or other contents of the same pater family **Particular relevance the claimed in the continuation of the principal date of the amount of the same pater family **Particular relevance the claimed		ational classification and IPC			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* (Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y PO 9914423 A1 (SUNDS DEFIBRATOR PORI OY), 3 December 1997 (03.12.1997), figure 1, claim 1 Y WO 9914423 A1 (KVAERNER PULPING AB), 25 March 1999 (25,03.1999), page 2, line 3 - line 27; page 6 - page 7; page 11, line 34 - page 12, line 2 - line 37; column 7, line 3 - line 9 WS 6350348 B1 (KAJ HENRICSON ET AL), 26 February 2002 (26.02.2002), column 2, line 29 - line 37; column 7, line 3 - line 9 WS expectate categories of cited documents "A" document defains the general state of the art which is not considered to be of particular relevance." For earlier application relevance." See patent family amnex. "T' later document guilded after the international filing date or practive to be of particular relevance." For document contains the publication of other special resum (as special evance) the publication of the international filing date to the princity date daimed. Date of the actual completion of the international search Date of the actual completion of the international search the princity date daimed. Date of the actual completion of the international search the princity date daimed. Date of the actual completion of the international search the princity date daimed. Date of the actual completion of the international search the princity date daimed. Date of the actual completion of the international search the princity date daimed. Date of the actual completion of the international search the princity date daimed. Date of the actual completion of the international search the princity date daimed. Date of mean daimed the date of the date		v classification symbols)			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, MPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category** Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. POSITION OF THE POSITION O		, 	Ψ.		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y		e extent that such documents are included i	in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y					
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y		e of data base and, where practicable, searc	h terms used)		
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y EP 0810321 A1 (SUNDS DEFIBRATOR PORI 0Y), 3 December 1997 (03.12.1997), figure 1, claim 1 W0 9914423 A1 (KVAERNER PULPING AB), 25 March 1999 (25.03.1999), page 2, line 3 - line 27; page 6 - page 7; page 11, line 34 - page 12, line 2 US 6350348 B1 (KAJ HENRICSON ET AL), 26 February 2002 (26.02.2002), column 2, line 29 - line 37; column 7, line 3 - line 9 X Further documents are listed in the continuation of Box C. X Special categories of cited documents: ** Comment defining the general state of the art which is not considered to be of purious relevance of the continuation of Box C. ** Special categories of cited documents: ** Special categories of cited documents: ** Comment defining the general state of the art which is not considered to be of purious and published on or after the international control to the origination or patent but published on or after the international control to control the control to the published on or after the international control to control to the control to the published on or after the international control to control to the control to the control to the published on or after the text of the categories of cited to catego		• •			
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y EP 0810321 A1 (SUNDS DEFIBRATOR PORI 0Y), 3 December 1997 (03.12.1997), figure 1, claim 1 W0 9914423 A1 (KVAERNER PULPING AB), 25 March 1999 (25.03.1999), page 2, line 3 - line 27; page 6 - page 7; page 11, line 34 - page 12, line 2 US 6350348 B1 (KAJ HENRICSON ET AL), 26 February 2002 (26.02.2002), column 2, line 29 - line 37; column 7, line 3 - line 9 X Further documents are listed in the continuation of Box C. X Special categories of cited documents: * Special categories of cited documents: * Special categories of extent documents: * Special categories of extent defining the general state of the art which is not considered to be of particular relevance to extent or special reason (as specified) * Comment which may throw doubts on priority claim(g) or which is root constabled the policity date claimed. Comment referring to an orral disclosure, use, exhibition or other operal reason (as specified) Comment published prior to the international filing date but later than the priority date claimed. Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office BOX 5055, 8-102 42 STOCKHOLM Relevant to claim No. 1-11					
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. EP 0810321 A1 (SUNDS DEFIBRATOR PORI OY), 3 December 1997 (03.12.1997), figure 1, claim 1 W0 9914423 A1 (KVAERNER PULPING AB), 25 March 1999 (25.03.1999), page 2, line 3 - line 27; page 6 - page 7; page 11, line 34 - page 12, line 2 BUS 6350348 B1 (KAJ HENRICSON ET AL), 26 February 2002 (26.02.2002), column 2, line 29 - line 37; column 7, line 3 - line 9 XI Further documents are listed in the continuation of Box C. A V Special categories of cited documents closured defining the general state of the art which is not considered to be of particular relevance to be of particular are levance affiling date. Special categories of cited documents closured defining the general state of the art which is not considered to be of particular are levance of the considered to involve an inventive step when the document is taken alone to considered to involve an inventive step when the document is taken alone to considered to involve an inventive step when the document is taken alone to applicate the consideration or other section of the particular relevance the claimed invention cannot be considered to involve an inventive step when the document is taken alone to applicate the consideration or other section of the particular relevance the claimed invention cannot be considered to involve an inventive step when the document is contined with one or more other such document is considered to involve an inventive step when the document is considered to involve an inventive step when the document is applicated in the particular relevance the claimed invention cannot be considered to involve an inventive step when the document is applicated in the particular relevance the claimed invention cannot be considered to involve an inventive step when the document is applicated to applicate the particular relevance the claimed invention cannot be considered to involve an inventive step wh					
Putther documents are listed in the continuation of Box C. Wound	C. DOCUMENTS CONSIDERED TO BE RELEVANT				
3 December 1997 (03.12.1997), figure 1, claim 1 WO 9914423 A1 (KVAERNER PULPING AB), 25 March 1999 (25.03.1999), page 2, line 3 - line 27; page 6 - page 7; page 11, line 34 - page 12, line 2 US 6350348 B1 (KAJ HENRICSON ET AL), 26 February 2002 (26.02.2002), column 2, line 29 - line 37; column 7, line 3 - line 9 * Special categories of cited documents document defining the general state of the art which is not considered security application or patient but published on or after the international filing date "T" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other mensus the priority date claimed. "O' document referring to an oral disclowre, use, exhibition or other mensus the priority date claimed. "O' document referring to an oral disclowre, use, exhibition or other mensus the priority date claimed. Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ SwedIsh Patent Office Box 5055, S-102 42 STOCKHOLM T-11 See patent family annex. 1-11 1-11 1-11 See patent family annex. 1-11 1-11 1-11 See patent family annex. 1-11 1-11 1-11 1-11 1-11 1-11 1-11 2 See patent family annex. 1-11 1-11 2 See patent family annex. 1-11 1-11 2 See patent family annex. 1-11 1-11 1-11 2 See patent family annex. 1-11 2 See patent family annex. 1-11 1-11 1-11 2 See patent family annex. 1-11 2 See patent family annex. 1-11 1-11 2 See patent family annex. 1-11 2 See patent family annex. 1-11 1-11 2 See patent family annex. 1-11 2 See patent family annex. 1-11 1-11 2 See patent family annex. 1-11 2 See patent family annex. 1-11 1-11 2 See patent family annex. 1-11 2 See patent family annex. 1-11 1-11 2 See patent family annex. 1-11	Category* Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
(25.03.1999), page 2, line 3 - line 27; page 6 - page 7; page 11, line 34 - page 12, line 2 —— A US 6350348 B1 (KAJ HENRICSON ET AL), 26 February 2002 (26.02.2002), column 2, line 29 - line 37; column 7, line 3 - line 9 —— * Special categories of cited documents A document defining the general state of the art which is not considered to be of particular relevance. B' earlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or there are being date. L' document which may throw doubts on priority claim(s) or which is cited to testabilish the publication date of another citation or other means B' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means B' document published prior to the international search C' document referring to an oral disclosure, use, exhibition or other means B' document published prior to the international search C' document referring to an oral disclosure, use, exhibition or other means B' document published prior to the international search C' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means C' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means A document member of the same patent family Date of the actual completion of the international search B' document defining the general state of the actual completion of the international search B' document member of the same patent family Date of mailing of the international search report Date of mailing of the international search report Date of mailing address of the ISA/ Swedish	Y J EP 0810321 A1 (SUNDS DEFIBRATOR 3 December 1997 (03.12.1997	PORI OY),), figure 1, claim 1	1-11		
(25.03.1999), page 2, line 3 - line 27; page 6 - page 7; page 11, line 34 - page 12, line 2 —— A US 6350348 B1 (KAJ HENRICSON ET AL), 26 February 2002 (26.02.2002), column 2, line 29 - line 37; column 7, line 3 - line 9 —— * Special categories of cited documents A document defining the general state of the art which is not considered to be of particular relevance. B' earlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or there are being date. L' document which may throw doubts on priority claim(s) or which is cited to testabilish the publication date of another citation or other means B' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means B' document published prior to the international search C' document referring to an oral disclosure, use, exhibition or other means B' document published prior to the international search C' document referring to an oral disclosure, use, exhibition or other means B' document published prior to the international search C' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means C' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means B' document referring to an oral disclosure, use, exhibition or other means A document member of the same patent family Date of the actual completion of the international search B' document defining the general state of the actual completion of the international search B' document member of the same patent family Date of mailing of the international search report Date of mailing of the international search report Date of mailing address of the ISA/ Swedish					
page 6 - page 7; page 11, line 34 - page 12, line 2 Line 2 Line 2 Line 2 Line 2 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 7, line 3 - line 9 Line 29 - line 37; column 12, line 30; line 40; l	1 (05 00 1000) 0 15	1-11			
Z6 February 2002 (26.02.2002), column 2, line 3 - line 9	page 6 - page 7; page 11, 1 line 2	page 6 - page 7; page 11, line 34 - page 12, line 2			
Z6 February 2002 (26.02.2002), column 2, line 3 - line 9	 ,	170			
Further documents are listed in the continuation of Box C. ** **Special categories of cited documents: **A" document defining the general state of the art which is not considered to be of particular relevance. **Be earlier application or patent but published on or after the international filing date. **L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) **O' document referring to an oral disclosure, use, exhibition or other means **P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM See patent family annex. T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention and the principle or theory underlying the invention of the considered to involve an inventive step when the document is taken alone or ordered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art **Comment of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art **Comment published prior to the international search 2 May 2005 Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM **Total and the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention of the considered to involve an inventive step when t	26 February 2002 (26.02.200	1-11			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent but published on or after the international filing date "I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance: the claimed invention cannot be considered novel or camot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or camot be consider					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent but published on or after the international filing date "I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cann					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent but published on or after the international filing date "I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cann					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent but published on or after the international filing date "I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance: the claimed invention cannot be considered novel or camot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or camot be consider					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent but published on or after the international filing date "I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance: the claimed invention cannot be considered novel or camot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or camot be consider	V Further documents are listed in the continuation of Bo	x C. Y See patent family annex	<u>.</u>		
to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM **C" May international filing date that international materials and the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered novel or cannot be consider					
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report Marianne Bratsberg/EÖ Marianne Bratsberg/EÖ	to be of particular relevance	the principle or theory underlying the			
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Addition or other comsidered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report Authorized officer Marianne Bratsberg/EÖ	filing date "L" document which may throw doubts on priority claim(s) or which is	considered novel or cannot be considered	ered to involve an inventive		
"P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report Authorized officer Marianne Bratsberg/EÖ	special reason (as specified)	considered to involve an inventive ste	p when the document is		
Date of the actual completion of the international search 2 May 2005 Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Date of mailing of the international search report Authorized officer Marianne Bratsberg/EÖ	means "P" document published prior to the international filing date but later than	being obvious to a person skilled in the	ne art		
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Authorized officer Marianne Bratsberg/EÖ					
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Authorized officer Marianne Bratsberg/EÖ	2 May 2005	0 / −05− 20	n s		
Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Marianne Bratsberg/EÖ	Name and mailing address of the ISA/		U.J		
	Swedish Patent Office				
FACSIMILE 140. T 40 0 000 02 00 T 1 elephone 140. T 40 0 702 25 00	Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Marianne Bratsberg/EÖ Telephone No. +46 8 782 25 00			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/050196

	·	PC1/F1 2004	\n201Ap
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.
A J	WO 0125531 A1 (VALMET CHEMICAL PULPING OY), 12 April 2001 (12.04.2001), figure 1	•	1-11
			
	ED OFFICARIO A1 (CUMPS DECIPEATOR DODI OV)		1-11
4 1	EP 0520452 A1 (SUNDS DEFIBRATOR PORI OY), 30 December 1992 (30.12.1992), figure 4	-	
L	US 4578149 A (BERTIL K. E. FAGERLUND), 25 March 1986 (25.03.1986), figure 1, abstract		1-11
٠. ٠	adstract	•	
,		. *	•
			,
			· · ·
•			•
			·
		•	
		•	
•			.,
		•	
	• •	•	
•			
	·		

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/04/2005

International application No. PCT/FI 2004/050196

	•					•
EP	0810321	A1	03/12/1997	SE	0810321 T3	15 (05 (000
				AT AU	202167 T 721440 B	15/06/200 06/07/200
			1	UA	2016297 A	04/12/199
				BR	9703156 A	27/10/199
				CA	2203096 A	30/11/199
				CN	1109160 B,C	21/05/200
				CN	1170795 A	21/01/199
		•		DE	69705160 D,T	16/05/200
			"	ES	2159385 T	01/10/200
·	•			FI	105929 B	00/00/000
				FI ID	962260 A 18445 A	01/12/199 00/00/000
	•		•	JP	10053989 A	24/02/199
	•			NO	972456 A	01/12/199
	•		•	NZ	314898 A	26/06/199
				PT	810321 T	31/10/200
•				RU	2128259 C	27/03/199
			*	ZA	9703887 A	08/12/199
WO	9914423	A1	25/03/1999	AT	201462 T	15/06/200
•				UA	9195598 A	05/04/199
				DE	69704943 D	00/00/000
•			•	EP SE	0903436 A,B 0903436 T3	24/03/199
			·	JP ·	2003526740 T	09/09/200
			•	SE	9703365 D	00/00/000
				US	6143130 A	07/11/200
US	6350348	B1	26/02/2002	CA	2278181 A	30/07/199
05	0330370	D1	20, 02, 2002	·FI	3198 U	16/12/199
•				FI	970254 A.V	23/07/199
	. •			SE	9902745 A	21/09/199
				MO	9832912 A	30/07/199
				FI	991579 A	10/09/199
MO	0125531	A1	12/04/2001	AU	7666500 A	10/05/200
	. •			BR	0013839 A	14/05/200
		•		CA	2381414 A	12/04/200
				EP	1242674 A	25/09/200
				FI FI	110327 B 992132 A	00/00/000
	٠.			JP -	2003511569 T	25/03/200
÷						23/ 03/ 200.

INTERNATIONAL SEARCH REPORT Information on patent family members

01/04/2005

International application No. PCT/FI 2004/050196

· ·		•			•
EP	0520452 A1	30/12/1992	SE AT AU AU BR CA DE ES FI JP	0520452 T3 138129 T 660023 B 1827392 A 9202492 A 2072479 A,C 69210692 D,T 2089296 T 92224 B,C 913160 A 3513619 B	15/06/1996 08/06/1995 07/01/1993 09/02/1993 29/12/1992 23/01/1997 01/10/1996 30/06/1994 29/12/1992 31/03/2004
			JP NO NO PT RU US ZA	5186984 A 180386 B,C 922513 A 100633 A,B 2084575 C 5643410 A 9204357 A	27/07/1993 30/12/1996 29/12/1992 29/04/1994 20/07/1997 01/07/1997 31/03/1993
US	4578149 A	25/03/1986	BR CA FI JP JP JP SE SE	8201145 A 1179807 A 79724 B,C 820643 A 1712630 C 2044957 B 57176282 A 463267 B 8201334 A	11/01/1983 25/12/1984 31/10/1989 06/09/1982 27/11/1992 05/10/1990 29/10/1982 29/10/1990 06/09/1982